



Electronics & ICT Academy



(Under Ministry of Electronics and Information Technology, Government of India)
Indian Institute of Technology Guwahati, Guwahati, Assam, Pin 781039

Phone: +91-361-2583182

Email: eictacad@iitg.ac.in,
eictacad@gmail.com

Faculty Development Programme

On

“Data Analytics Using Python Programming”

Venue: Sri Sankara Arts & Science College

Date: 28 Jan - 01 Feb, 2019

Date	Time	Topic
28-01-2019 (Day 1)	09:00 am-9:30 am	Registration & Reporting
	9:30 am-10:00 am	Inauguration
	10:00 am-11:00 am	Module 1: Data Science Overview
	11:00 am-11:15 am	Tea Break
	11:15 am-1:15 pm	Module 2: Data Analytics Overview
	1:15 pm-02:15 pm	Lunch Break
	02:15 pm-03:45 pm	Module 3: Statistical Analysis and Business Applications
	03:45 pm-04:00 pm	Tea Break
	04:00 pm-05:15 pm	Module 4: Python: Environment Setup and Essentials (Lab)
	05:15 pm – 05:30 pm	MCQ-1
29-01-2019 (Day 2)	09:30 am-11:00 am	Module 5: Mathematical Computing with Python (NumPy)
	11:00 am-11:15 pm	Tea Break
	11:15 am-01:15 pm	Module 6: Scientific computing with Python (Scipy)
	01:15 pm-02:15 pm	Lunch Break
	02:15 pm-03:45 pm	Module 5: Mathematical Computing with Python (NumPy)(Lab)
	03:45 pm-04:00 pm	Tea Break
	04:00 pm-05:15 pm	Module 6: Scientific computing with Python (Scipy)(Lab)
05:15 pm -05:30 pm	MCQ-2	
30-01-2019 (Day 3)	09:30 am-11:00 am	Module 7: Data Manipulation with Python (Pandas)
	11:00 am-11:15 am	Tea Break
	11:15 am-12:00 pm	Module 10: Data Visualization in Python using Matplotlib
	12:00 pm-01:15 pm	Module 8: Machine Learning with Python (Scikit-Learn)
	01:15 pm-02:15 pm	Lunch Break
	02:15 pm-03:15 pm	Module 7: Data Manipulation with Python (Pandas)(Lab)
	03:15 pm-04:15 pm	Module 10: Data Visualization in Python using Matplotlib(Lab)
	04:15 pm-04:30 pm	Tea Break
04:30 pm-05:15 pm	Module 8: Machine Learning with Python (Scikit-Learn) (Lab)	
05:15 pm – 05:30 pm	MCQ-3	
31-01-2019 (Day 4)	09:30 am-11:00 am	Module 11: Data Science with Python Web Scraping Module 8: Machine Learning with Python (Scikit-Learn)
	11:00 am-11:15 am	Tea Break
	11:15 am-01:15 pm	Module 9: Natural Language Processing with Scikit-Learn
	01:15 pm-02:15 pm	Lunch Break
	02:15 pm-03:45 pm	Module 12: Python integration with Hadoop, MapReduce and Spark
	03:45 pm-04:00 pm	Tea Break

	04:00 pm-05:15 pm	Module 12: Python integration with Hadoop, MapReduce and Spark (Lab)
	05:15 pm – 05:30 pm	MCQ-4
01-02-2019 (Day 5)	09:30 am-11:00 am	Solving Real Life Problem/Case Study (Supervised)
	11:00 am-11:15 am	Tea Break
	11:15 am-01:15 pm	Solving Real Life Problem/Case Study contd.. (Supervised)
	01:15 pm-02:15 pm	Lunch Break
	02:15 pm-03:30 pm	Case Study Assignment (Exercise)
	03:30 pm-03:45 pm	Tea Break
	03:45 pm – 04:00 pm	MCQ-5
	04:00 pm onwards	Certificate Distribution

E&ICT ACADEMY